

CLAIM AMENDMENTS

1-38 (canceled)

39. (new) A water filter assembly comprising:

a vessel defining a chamber having first and second ends and an outlet and an inlet towards the first end of the chamber, with the inlet being outward of the outlet,

a cylindrical member extending within the chamber from said first end, wherein the inlet opens into the chamber exteriorly of the cylindrical member, the outlet opens from the chamber interiorly of the cylindrical member, and the cylindrical member is shorter than the chamber and is open at the second end of the chamber such that the vessel and cylindrical member define a flow path from the inlet around the exterior of the cylindrical member to the second end of the chamber and back through the interior of the cylindrical member to the outlet,

a water cooling arrangement in contact with the flow path around the exterior of the cylindrical member, and

a water filter arrangement being located within the cylindrical member,

whereby the water filter arrangement and the water cooling arrangement are provided in an integral unit.

40. (new) A water filter assembly according to claim 39, wherein the water cooling arrangement comprises a thermoelectric heat pump.

41. (new) A water filter assembly according to claim 40, wherein the thermoelectric heat pump is an electronic device comprising a plurality of junctions between dissimilar electrical conductors.

42. (new) A water filter assembly according to claim 41, wherein the electronic device works by the Peltier effect, in

that when current is applied across the junctions it provides a warm and a cold side to the electronic device.

43. A water filter assembly according to claim 40, wherein the thermoelectric heat pump, in operation, has a warm side and a cold side and the assembly further comprises a thermally conductive member that extends from the cold side of the heat pump into engagement with the flow path.

44. (new) A water filter assembly according to claim 40, wherein the thermoelectric heat pump, in operation, has a warm side and a cold side and the assembly further comprises a heatsink that extends from the warm side of the heat pump.

45. (new) A water filter assembly according to claim 40, wherein the thermoelectric heat pump, in operation, has a warm side and a cold side and the assembly further comprises a fan, provided on the warm side of the heat pump to dissipate heat therefrom.

46. (new) A water filter assembly according to claim 40, wherein the thermoelectric heat pump, in operation, has a warm side and a cold side and the assembly further comprises a heatsink that extends from the warm side of the heat pump and a fan mounted on the heatsink to dissipate heat therefrom.

47. (new) A water filter assembly according to claim 39, wherein the assembly is arranged so as to be connectable to a public utility water supply.

48. (new) A water filter assembly according to claim 39, wherein the filter arrangement comprises a removable filter element.

49. (new) A water filter assembly according to claim 48, wherein the removable filter element is made of ceramic material.

50. (new) A water filter assembly according to claim 48, wherein the vessel has a removable lid to permit removal of the filter element therefrom.

51. (new) A water filter assembly according to claim 50, wherein the outlet and inlet pass through the lid.

52. (new) A water filter assembly according to claim 39, further comprising a thermostat in contact with the flow path.